Original/Duplicate/Triplicate

SBR No. 15 | 22-23 DATED 23/08/2022

CONTRACT CERTIFICATE

No. 1st & Final bill (For Other Works) Date 2022 EE/ELE/Y/BR No. 15/22-23

Division: **Electrical (Belahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated..... Dt. 23/08/2022

Sub Divisional **Job Code :-005-22-000010**

Schedule Docket No. Head of Account : P-CODE:P1828 D.R.No. :

Name of Work:- Providing LED Street lights/Control switches/control wires at Dark/volernabal places in Ward no 05

Name of Contractor and Full Address: **M/s Arvinda Electricals.**

Reference to Agreement No:- EE(ele)/YZ/W.O/000020/2022-23 Date 27/04/2022

Certified that the measurements were taken by me on 18/6/22 and recorded of Pages 260003 to 260006 of measurement Book No. 2661/22-23 and that the work is satisfactorily executed.

For ARAVINDA ELECTRICALS

Partner

Contractor

T.M. Badiger JAO

Officer-in-charge of work

Certified that the measurement were taken by me on 18/6/22 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	BillAmt 1944626=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1% 194466=00
3)	" Balance	LWC 1% 194466=00
4)	Deduct Payment:	CBFO.1% 1947=00
a)	Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... towards cash advance recovery of	Amount adjusted
b)	Payments Now made cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	Scst 1% 173923=00
		Cust 1% 173923=00
5)	Balance being unpaid value of work done held in reserve.	~~ESDS 1% 97233=00~~
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	Dedetion 756225=00 unadjustments items.
7)	Net amount due to or from Contractor	Cheque 1869401=00
8)	Advance to Contractor for materials brought to site (as detailed) within	
9)	Value of Government materials supplied.	Total amount adjusted

For ARAVINDA ELECTRICALS

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

Dedetion 1728556 Partner

Cheque 1771807=00

(For use in the Office)

Witness

1.

2.

For ARAVINDA ELECTRICALS

Stamp

Partner

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

D1828 provision only add. Street

Executive Engineer

ರೂ:1,94,46,626=00 ಮಾತ್ರ ಸ್ವೀಕರಿಸಿದೆ

1771807=00 ರೂ:18,69,401=00 ನೀಡಬಹುದಾಗಿದೆ

1728556=00 ರೂ:7,56,225=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

ಕಿರಿಯ ಅಧೀಕ್ಷಕರು ಕಾ.ಪಾ.(ಸ) ಮಲ್ಲೇಶ್ವರಂ ವಲಯ

Sl. No	Description	Unit
	Name Of Work:- Providing LED Street lights/Control switches/control wires at Dark/volernabal places in Ward no 05..	
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Streetlight 90 Watts	Nos
2	Supplying and Fixing of. mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.Pipe	Each
3	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each
4	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring.4 sqmm	Mtrs
5	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA.	Each
6	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	Each
7	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs
8	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtrs
9	1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max) b) Permanent Elongation After Cooloing: 3% (Max) 2. Thermal Aging in oven: a) Tensile Strength: 16 N/mm² (Min) b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm² (Max) 4. Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral)	KM

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		2000	7272.00	14544000.00	2000	14544000.00	
		2000	999.00	1998000.00	2000	1998000.00	
		2000	189.00	378000.00	2000	378000.00	
		5000	9.00	45000.00	5000	45000.00	
		20	4545.00	90900.00	20	90900.00	
		20	1899.00	37980.00	20	37980.00	
		140	144.00	20160.00	140	20160.00	
		140	36.00	5040.00	140	5040.00	
		1.641	144009.00	236318.77	1.641	236318.77	

10	Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	
	Total Rs	
	GST Charges (12% on SR Electrical items) Item No 01 to 08	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

For ARAVINDA ELECTRICALS

Partner

		1.641	22509.00	36937.27	1.641	36937.27	
				17392336.04		**17392336.04**	
	17119080.00			2054289.60		2054289.60	
				19446625.64		**19446625.64**	

19446626:00 19446626:00